

ART. VI.—*The Australian Species of Carex in the National Herbarium of Victoria.*

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[Communicated by Professor A. J. Ewart, Ph.D., D.Sc., &c.]

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In his Monograph of the Cyperaceae—Caricoideae in Engler's Pflanzenreich IV.-20 (1909)—Kukenthal has changed the nomenclature of several of the Australian species of *Carex* and his systematic arrangement is quite different from that given in Mueller's Census of Australian Plants.

As Engler's Pflanzereich is not readily available to many botanical workers, it was thought that the following notes giving the systematic arrangement according to Kukenthal, and also the distribution of the species in the National Herbarium, might be of some use to those interested in the above subject.

It will be noted that several species which were included by Mueller and Bentham under well known European species have been considered by Kukenthal to be distinct, and some that have hitherto been recognised as valid, have been reduced to varieties, whilst others that have been looked upon previously as synonyms have been raised to specific rank.

Genus CAREX.

Sub-genus 1. *Primocarex*.

C. ACICULARIS, Boott in Hook. f. Fl. N.Z., 280 t. 63 (1853).

Victoria. It is also recorded from New South Wales and Tasmania, but there are no specimens from either of these States in this Herbarium.

C. RARA, Boott in Proc. Linn. Soc. i., 284 (1845).

Subspecies *C. CAPILLACEA*, Boott. Illustr. Caric. i., 44 t. 110 (1858.)

New South Wales.

C. PYRENAICA, Wahlenb, in Vet. Akad. Handl., Stockholm, xxiv., p. 139 (1803.)

Var. *CEPHALOTES*, Kukenthal in Engl. Pflanzer, iv.-20, p. 106 (1909), (*C. CEPHALOTES*, F.v.M.)

Victoria; New South Wales.

Sub genus 2. *Vignea.*

C. CHLORANTHA, R. Br. Prodr. 242 (1810).

Victoria; New South Wales; Tasmania.

C. DECLINATA, Boott, Illustr. Caric. iv., 171, t. 58 (1867).

New South Wales; Queensland.

C. TERETICAULIS, F.v.M. Fragm. viii., 256 (1874).

Victoria; South Australia; West Australia; Tasmania.

C. APPRESSA, R.Br. Prodr., 242 (1810). (*C. paniculata*, F.v.M.
non L.)Victoria; New South Wales; Queensland; South Australia;
West Australia; Tasmania.Forma 1 DIAPHANA, Kukenthal. (*C. paniculata*, var.
subdiaphana.)

Queensland and South Australia.

Forma 2 MINOR, Kukenthal (*C. chlorantha*, var. *com-*
posita, Benth.)

Victoria; New South Wales; Tasmania.

Var. VIRGATA, Kukenth, in Engl. Pflanzr., iv.-20, p. 179
(1909).

New South Wales; Tasmania.

C. INVERSA, R.Br. Prodr., 242 (1810).

Victoria; New South Wales; Queensland; South Australia;
Tasmania.

Forma 1 PARVULA, Kukenthal.

New South Wales.

Forma 2 MAJOR, Boott.

Victoria; West Australia.

Var. LEICHHARDTII, Boeck.

New South Wales; Queensland.

C. HYPANDRA, F.v.M. Fragm., viii., 259 (1874).

Victoria; New South Wales.

C. CANESCENS, L. Spec. Plant. i. 274 (1753).

Var. *ROBUSTIOR*, Blytt. ex Anderss. Cypr. Scand. 57 (1849).

Victoria; New South Wales.

C. STELLULATA, Good, in Trans. Linn. Soc., II., 144 (1794) (*C. echinata*, Boeck non Murr.)

Victoria; New South Wales.

Sub-genus 3. **Indocarex.**

C. INDICA, L. Mant. II., 574 (1771) var. *FISSILIS*, Kukenth. (*C. fissilis*, Boott.).

Queensland.

Sub-genus 4. **Eucarex.**

C. GAUDICHAUDIANA, Kunth. Enum. II., 417 (1837) (*C. vulgaris*, Fries. var. *Gaudichaudiana*, Boott.) (*C. caespitosa*, F.v.M. non L.)

Victoria; New South Wales; Queensland; South Australia; Tasmania.

Var. *HUMILIOR*, Kukenthal in Engl. Pflanzr. iv.-20 p. 313 (1909).

Tasmania. Kukenthal records this variety from New South Wales, but there are no specimens from that State in this Herbarium.

Var. *CONTRACTA*, Kukenthal in Engl. Pflanzr. iv.-20, p. 313 (1909).

(Syn. *C. contracta*, F.v.M.)

New South Wales.

C. POLYANTHA, F.v.M. in Trans. Phil. Soc. Vict. i., 110 (1855). (*C. acuta*, F.v.M. non L.)

Victoria; New South Wales.

C. CERNUA, Boott. Illustr. Caric. iv., 171, t. 578 (1867).

Var. *LOBELIPES*, Kukenthal in Engl. Pflanzr. iv.-20, p. 354 (1909) (*C. lobelipes*, F.v.M.)

New South Wales.

C. BUXTBAUMII, Wahlenb. in Vet. Akad. Handl. Stockholm, xxiv., 163 (1803).

Victoria. This is also recorded from New South Wales, but there are no specimens from that State in this Herbarium.

C. MACULATA, Boott. in Trans. Linn. Soc., xx., p. 128 (1846).

Var. NEUROCHLAMYS, Kukenth. in Engl. Pflanzr. iv.-20, p. 428 (1909) (*C. neurochlamys*, F.v.M.).

New South Wales; Queensland.

C. BREVICULMIS, R.Br. Prodr., 242 (1810).

Victoria; New South Wales; South Australia; Tasmania.

C. BRUNNEA, Thunb. Fl. Jap., 38 (1784) (*C. gracilis*, R.Br.).

New South Wales; Queensland.

C. LACISTOMA, R.Br., Prodr., 243 (1810).

Kukenthal records this species from New South Wales, but it is not represented in this Herbarium.

C. BROWNII, Tuckerm. Enum. Meth. 21 (1843).

Victoria, New South Wales.

C. ALSOPHILA, F.v.M. Fragm. viii., 257 (1874).

Victoria.

C. LONGIFOLIA, R.Br. Prodr., 242 (1810) (*C. longibrachiata*, Boeck).

Victoria; New South Wales; Queensland; Tasmania.

C. GUNNIANA, Boott. in Trans. Linn. Soc. xx. 143 (1846).

Victoria; New South Wales, South Australia; and Tasmania.

Var. BARBATA, Kukenth. in Engl. Pflanzr. iv.-20 p. 663 (1909) (*C. barbata*, Boott.).

Kukenthal records this variety from Tasmania, but it is not represented in this Herbarium.

Var. BREVIOR, Kukenth. in Engler's Pflanzr. iv.-20 p. 663 (1909).

This variety is recorded from Gippsland, Victoria, by Kukenthal, but it is not represented in this Herbarium.

C. OEDERI, Retz. Fl. Scand. Prodr. 179 (1779). Var. CATARACTAE, Kukenth. in Engl. Pflanzr. iv.-20, p. 675 (1909), (*C. cataractae*, R.Br.), (*C. flava*, Benth., non L.) Tasmania.

C. TASMANICA, Kukenth. in Bull. Herb. Boiss, 2nd Ser. iv., 59 (1904).

Tasmania.

C. PREISSII, Nees in Lehm. Pl. Preiss ii. 94 (1846).

West Australia.

C. PSEUDO-CYPERUS, L. Spec. Pl. ed. i. 97 (1753) var. FASCICULARIS, Boott. (*C. fascicularis*, Soland).

Victoria; New South Wales; Queensland; South Australia; West Australia; Tasmania.

C. PUMILA, Thunb. Fl. Jap. 39 (1784).

Victoria; New South Wales; South Australia; Tasmania. It is also recorded from Queensland, but there are no specimens from that State in this Herbarium.

Var. BICHENOVIANA, Kukenth. in Engl. Pflanzr. iv.-20, p. 740 (1909) (*C. Bichenoviana*, Boott.) (*C. haemato-stoma*, Boeck. non Nees).

Victoria; New South Wales.

This variety is also recorded by Kukenthal from South Australia and Tasmania, but it is not represented from either of these States in this Herbarium.

C. RICHMONDII (Boott. M.S.). Clarke in New Genera and Species of Cyperaceae in Kew Bull. Ad. Ser. 8, p. 83 (1908).

This is recorded from Tasmania, but Kukenthal does not record this species in his Monograph, and there are no specimens of it in this Herbarium.

Systematic arrangement
according to Mueller.

Systematic arrangement
according to Kukenthal.

The numbers show the order of
sequence.

C. cephalotes, F.v.M.	=	(3) C. pyrenaica, Wahl. var. cephalotes, Kukenthal.
C. acicularis, Boott.	=	(1) C. acicularis, Boott.
C. capillacea, Boott.	=	(2) C. rara, Boott. (sub- species C. capillacea, Boott.)
C. inversa, R.Br.	=	(8) C. inversa, R.Br.
C. canescens, L.	=	(10) C. canescens, L.
C. echinata (Murr.) Boehch		
non Murr.	=	(11) C. stellulata, Good.
C. hypandra, F.v.M.	=	(9) C. hypandra, F.v.M.
C. chlorantha, R.Br.	=	(4) C. chlorantha, R.Br.
C. paniculata (L.), F.v.M.		
non Linn.	=	(7) C. appressa, R.Br.
C. declinata, Boott.	=	(5) C. declinata, Boott.
C. tereticaulis, F.v.M.	=	(6) C. tereticaulis, F.v.M.
C. haematoxystoma (Nees),	(29a)	C. pumila, var. Bicheno-
Boehch. non Nees	=	viana, Boott.
C. fissilis, Boott.	=	(12) C. indica, L. var. fissilis, Kukenthal.
C. brunnea, Thunb.	=	(19) C. brunnea, Thunb.
C. contracta, F.v.M.	=	(13a) C. Gaudichaudiana, Kunth. var. contracta, Kukenthal.
C. caespitosa (L.), F.v.M.		
non Linn.	=	(13) C. Gaudichaudiana, Kunth.
C. acuta (L.), F.v.M. non		
Linn.	=	(14) C. polyantha, F.v.M.
C. lobolepis, F.v.M.	=	(15) C. cernua, Boott. var. lobolepis, Kukenthal.
C. flava (L.), Benth. non	(25)	C. Oederi, Boott. var. cat-
Linn.	=	aractae, Kukenthal.
	(26)	C. tasmanica, Kukenthal.
C. Buxbaumii, Wahl.	=	(16) C. Buxbaumii, Wahl.
C. pumila, Thunb.	=	(29) C. pumila, Thunb.
C. breviculmis, R.Br.	=	(18) C. breviculmis, R.Br.

Systematic arrangement
according to Mueller.

- C. Neesiana, Endl. This is from Norfolk Island only, hence not Australian.
- C. Preissii, Nees.
- C. Gunniana, Boott.
- C. Bichenoviana, Boott.
- C. maculata, Boott.
- C. lacistoma, R.Br. (partim)
- C. lacistoma, R.Br. (partim)
- C. alsophila, F.v.M.
- C. longibrachiata, Boeh.
- C. pseudo-cyperus (L.)

Systematic arrangement
according to Kukenthal.

The numbers show the order of sequence.

- = (27) C. Preissii, Nees.
- = (24) C. Gunniana, Boott.
- = (29a) C. pumila, var. Bichenoviana, Boott.
- = (17) C. maculata, Boott., var. neurochlamys, Kukenth.
- = (20) C. lacistoma, R.Br.
- = (21) C. Brownii, Tuckerm.
- = (22) C. alsophila, F.v.M.
- = (23) C. longifolia, R.Br.
- = (28) C. pseudo-cyperus, L. var. fascicularis, Boott.